Material Safety Data Sheet according Directive 91/155 EEC Read this MSDS before handling and disposing of this product and pass this Important: information on to employees, customers and users of this product. 1. Identification of the substance/preparation and company 1.1. **Product Name:** ResiCem (paste) 1.2. Company: Shofu Dental GmbH Am Brüll 17 D-40878 Ratingen Phone No. +49(0)2102/8664-0 Fax-No. +49(0)2102/8664-64 1.3. **Emergency Phone No.** +49(0)2102/8664-20 2. Composition/information on ingredients Compositions given are typical values, not specifications. 2.1. Ingredients A paste B paste Symbol risk-phrases CAS-No. UDMA 72869-86-4 Triethylenglycol dimethacrylate 109-16-0 2-Hydroxyethyl methacrylate $\div 1 \% \leq 5 \%$ Xi irritant [868-77-9] Glass Filler (Fluoro-alumino-silicate glass) 65997-18-4 Acrvl adhesive monomer N/A Amorphous fumed silica 7631-86-9 **DL-Camphorquinone** N/A 10373-78-1 Others Hazardous ingredients are not included 3. Hazard identification 3.1. For the user: Contact may cause irritation to skin and eyes 3.2. **Environmental hazard:** 4. First aid measures 4.1. Inhalation: 4.2. Skin contact: Wash immediately with plenty of water and mild soap 4.3. Eye contact: Flash with flowing water and consult physician if necessary 4.4. Ingestion: Consult physician if necessary

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according Directive 91/155 EEC

5.	Fire-fighting measures	
5.1.	Extinguisher method:	foam, CO ₂ , dry chemical
5.2.	Not useful method:	
5.3.	Special exposure hazards arising:	In case of fire, do not breath fumes and gases (Irritatiating gases and fumes may emit)
5.4.	Special equipment for fire-fighting:	Wear fire protective cloth and self-contained breathing apparatus if necessary
6.	Accidental release measures	
6.1.	Personal precautions:	Avoid contact with eyes and skin
6.2.	Environmental precautions:	Dispose according to local, state, and federal regulations
6.3.	Methods for cleaning up	Wipe up and discard in a suitable container
7.	Handling and storage	
7.1.	Handling:	Avoid inhalation of grindings and prolonged skin and eyes contact with uncured resin
7.1.1.	Precautions for safe handling:	
7.2.	Storage:	Store in a cool and dark area
		(Keep refrigerated when not in use)
7.2.1.	Precautions for storage rooms:	
7.2.2.	Storage of incompatible materials:	
7.2.3.	Special storage conditions:	Do not expose to sunlight or heat

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according Directive 91/155 EEC

8.	Exposure controls/persona	al protecti	on		
8.1.	Exposure controls:		ACGIH TL	V. None assign	ed
8.1.1.	МАК:				
8.2.	Respiratory protection:		Not require	d (use dust ma	sk while grinding or finishing)
8.3.	Hand protection:		Protective (gloves (latex or	rubber)
8.4.	Eye protection: Safe			gles (may be re	equired)
8.5.	Skin protection: Not required			d	
9.	Physical and chemical pro	perties:			
9.1.	Appearance paste	Colour	colored	Odour:	sweet
9.2.	PH:				
9.3.	Boiling point:	N/A			
9.4.	Melting point	N/D			
9.5.	Flash point	N/A			
9.6.	Explosion limits:	Lower:		Upper:	
9.7.	Relative density:	1.8		(water=1)	
9.8.	Vapour density:				
9.9.	Solubility:	water sol	ubility: insolub	ble	
9.10.	Viscosity:				
9.11.	Others:				
10.	Stability and reactivity:				
10.1.	Conditions to avoid:			Visible light	and high temperature
10.2.	Materials to avoid:			Strong oxid	izing materials
10.3.	Hazardous decomposition produ	icts:		Will not occ	eur
10.4	Others:				

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11.	Toxicological information:		
11.1.	Acute Toxicity:	LD50= Rodent-rat (oral) LD50= Rodent-rat (intraperiton) LD50= Rodent-mouse (oral)	5050mg/kg (as 2-HEMA) 1250mg/kg (as 2-HEMA) 3275mg/kg (as 2-HEMA)
11.1.1.	Ingestion:		
11.1.2.	Inhalation:		
11.1.3.	Skin contact:		
11.1.4.	Eye contact:		
11.2.	Chronic effects:		
11.2.1.			
11.2.2.			
11.2.3.			
11.2.4.			
11.2.5.			
12.	Ecological information:		
13.	Disposal conditions:		
13.1.	Material:	Dispose in accordance with local, sta and federal regulations	ate
13.2.	Packaging:		
14.	Transport information:		
		N/A	
15.	Regulatory information:		
16.	Other information:		
10.			
		Handling of product exclusively by de according to instructions for use	ental specialists
		N/D: No data	N/A: Not applicable

Material Safety Data Sheet

according Directive 91/155 EEC

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Disclaimer of Liability

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The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge.

For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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	cording Directive 91/155 EEC portant: Read this MSDS before handling and disposing of this product and pass this						
		employees, customers and users of this product.					
1.	Identification of the substance/preparation and company						
1.1.	Product Name: ResiCem (Primer A)						
1.2.	Company:						
	Shofu Dental GmbH Am Brüll 17 D-40878 Ratingen Phone No. +49 (0)2102/86 <u>info@shofu.de</u>	64-0 Fax-No. +49 (0)2102/8664-64					
1.3.	Emergency Phone No. +49 (0)2102/8664-25						
2.	Composition/informatio						
2.1.	Compositions given are typical Ingredients Acetone Pure water Others	values, not specifications. Einecs no. % weight Symbol risk-phrases CAS-No. ≒ 10 F flammable 67-64-1					
3.	Hazard identification						
3.1.	For the user:	Eye contact may occur irritation or possible corneal damage Possible nausea on prolonged exposure					
3.2.	Environmental hazard:	and/or dizziness					
3.4	Hazard Designation:	Highly flammable Liquid Symbol is F					
4.	First aid measures						
4.1.	Inhalation:	Move to the open air					
4.2.	Skin contact:	Wash immediately with soap and plenty of water					
4.3.	Eye contact:	Flash with flowing water and consult physician					
4.4.	Ingestion:	Consult physician					

5.	Fire-fighting measures	
5.1.	Extinguisher method:	foam, CO ₂ , dry chemical, water
5.2.	Not useful method:	
5.3.	Special Exposure Hazards Arising:	Easily flammable liquid in room temperature
5.4.	Special equipment for fire-fighting:	Wear fire protective cloth and self-contained breathing apparatus if necessary
6.	Accidental release measures	
6.1.	Personal precautions:	Avoid eye and skin contact -see section 8- Do not inhale vapor
6.2.	Environmental precautions:	Dispose according to local, state and federal regulations
6.3.	Methods for cleaning up	Wipe up and discard in a suitable container (leak-proof and gastight)
7.	Handling and storage	
7.1.	Handling: naked flames, sparks and sources of heat, do	Handle in a well ventilated place, keep away from onot smoke. Wear protective gloves, safty spectacles or face shield
7.1.1.	Precautions for safe handling:	
7.2.	Storage:	Store in a cool and dark fire proof area with container tightly closed. Separate from strong oxidants
7.2.1.	Precautions for storage rooms:	Keep refrigerated when not in use
7.2.2.	Storage of incompatible materials:	
7.2.3.	Special storage conditions:	Do not expose to sunlight or heat No smoking area

8.	Exposure controls/personal	protection	1			
8.1.	Exposure controls:					
8.1.1.	ACGIH TLV		Acetone[Cas	3 No. 67–64	-1]	1780 mg/m3
8.2.	Respiratory protection:		Not required necessary)	(use protect	ive gas mask fo	or organic gases, if
8.3.	Hand protection:		Protective glo	oves (latex o	or rubber)	
8.4.	Eye protection:		Safety goggle	es (may be r	required)	
8.5.	Skin protection:	not required (general wor	'king clothes)		
9.	Physical and chemical prope	erties:				
9.1.	Appearance Liquid	Colour	colorless	Odour:	sweet	
9.2.	PH:					
9.3.	Boiling point:	N/D				
9.4.	Melting point	N/A				
9.5.	Flash point	13°C (close)	I			
9.6.	Explosion limits:	Lower:		Upper:		
9.7.	Relative density:	1.01	(water =1)			
9.8.	Vapour density:					
9.9.	Solubility:	soluble in all	purport			
9.10.	Viscosity:					
9.11.	Others:					
10.	Stability and reactivity:					
10.1.	Conditions to avoid:				om source of igr	nition
10.2.	Materials to avoid:		harge and smo zing materials	oking etc.)		
10.3.	Hazardous decomposition produc	ts:		may occur	peroxide	
10.4	Others:					

11.	Toxicological information:		
11.1.	Acute Toxicity:		
11.1.1. 11.1.2. 11.1.3. 11.1.4.		Repeated co	r may cause headache, dizziness and vomiting ntact to the mucous membrane of eyes, nose use inflammation
11.2.	Chronic effects:		
11.2.1. 11.2.2. 11.2.3. 11.2.4. 11.2.5.			
12.	Ecological information:		
	Don't discard into the drain		
13.	Disposal considerations:		
13.1.	Material:	Disposal in a local regulatio	accordance with federal, state and
13.2.	Packaging:		
14.	Transport information:		
		UN hazard C Pack group II	lass 3 EN 1090 (as Acetone)
15.	Regulatory information:		
16.	Other information:		
		Handling of product exclusi according to instructions fo	
		N/D: No data	N/A: Not applicable

Material Safety Data Sheet

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Import	ding Directive 91/155 EEC tant: Read this MSDS befor	re handling and disposing of th	is product and p	bass this		
		oloyees, customers and users of	-			
1.	Identification of the subst	ance/preparation and	d company			
1.1.	Product Name:	ResiCem (Primer B)				
1.2.	Company:					
	Shofu Dental GmbH Am Brüll 17 40878 Ratingen Phone No. +49 (0)2102/8664	-0 Fax-N⊨+49 (0)210	2/8664-64			
1.3.	<u>info@shofu.de</u> Emergency Phone No.					
	+49 (0)2102/8664-20					
2.	Composition/information					
2.1.	Compositions given are typical va Ingredients 2-Hydroxy Ethyl Methacrylate	Einecs nc % weight = 40%	Symbol XI	risk-phrases irritant	868-77-9	
	Acetone Acrylic adhesive monomer Others	≦20%	F	flammable	67-64-1	
3.	Hazard identification					
3.1.	For the user:	Irritating to eyes and Possible nausea on pr	olonged expos			
3.2.	Environmental hazard:	Inhalation may occur s and/or dizziness	ore throat, col	ugn, contusion, r	leadache	
3.4	Hazard Designation:	Flammable and irritan	t preparation	. Symbols are F	and Xi	
4.	First aid measures					
4.1.	Inhalation:	Move to the open air				
4.2.	Skin contact:	Wash immediately wit	h soap and pl	enty of water		
4.3.	Eye contact:	Flash with flowing wate	er and consult	physician		
A A	Ingestion:	Consult physician				
4.4.		1,3				
4.4.						

5.	Fire-fighting measures	
5.1.	Extinguisher method:	foam, CO ₂ , dry chemical, water
5.2.	Not useful method:	
5.3.	Special Exposure Hazards Arising:	Easily flammable liquid in room temperature
5.4.	Special equipment for fire-fighting:	Irritation gases and fumes may emit Wear fire protective cloth and self-contained breathing apparatus if necessary
6.	Accidental release measures	
6.1.	Personal precautions:	Avoid eye and skin contact -see section 8- Do not inhale vapor
6.2.	Environmental precautions:	Dispose according to local, state and federal regulations
6.3.	Methods for cleaning up	Wipe up and discard in a suitable container (leak-proof and gastight)
7.	Handling and storage	
7.1.	Handling: naked flames, sparks and sources of heat, d	Handle in a well ventilated place, keep away from o not smoke. Wear protective gloves, safty spectaches or face shield
7.1.1.	Precautions for safe handling:	
7.2.	Storage:	Store in a cool and dark fire proof area with container tightly closed. Separate from strong oxidants
7.2.1.	Precautions for storage rooms:	Keep refrigerated when not in use
7.2.2.	Storage of incompatible materials:	
7.2.3.	Special storage conditions:	Do not expose to sunlight or heat No smoking area

8.	Exposure controls/persona	l protect	ion			
8.1.	Exposure controls:					
8.1.1.	ACGIH TLV			as No. 67–64 ⁻		mg/m3
8.2.	Respiratory protection:		-	as no.868–77- d (use protecti	-9] None ive gas mask for organi	e assigned ic gases, if
8.3.	Hand protection:		loves (latex o	r rubber)		
8.4.	Eye protection:	Safety gogg	lles (may be r	equired)		
8.5.	Skin protection:	not required	(general wor	king clothes)		
9.	Physical and chemical prop	erties:				
9.1.	Appearance Liquid	Colour	colorless	Odour:	sweet	
9.2.	PH:					
9.3.	Boiling point:	N/D				
9.4.	Melting point	N/A				
9.5.	Flash point	-12°C (d	close)			
9.6.	Explosion limits:	Lower:		Upper:		
9.7.	Relative density:	1.1	(water =1)			
9.8.	Vapour density:					
9.9.	Solubility:	soluble ir	n all purport			
9.10.	Viscosity:					
9.11.	Others:					
10.	Stability and reactivity:					
10.1.	Conditions to avoid:		ght on the liqui discharge and		from source of ignition	
10.2.	Materials to avoid:		xidizing mater		,	
10.3.	Hazardous decomposition produce	cts:		may occur	peroxide	
10.4	Others:					

11.	Toxicological information:					
11.1.	Acute Toxicity:	2HEMA 2HEMA	LD50 = LD50 =	ORAL-RAT ORAL-MUS	5050 mg/kg 3275 mg/kg	
11.1.1. 11.1.2. 11.1.3.	Inhalation: Skin contact:				ache, dizziness and vomiting	
11.1.4.	-		Repeated contact to the mucous membrane of eyes, nose and throat cause inflammation			
11.2.	Chronic effects:					
11.2.1. 11.2.2. 11.2.3. 11.2.4. 11.2.5.						
12.	Ecological information:					
	Don't discard into the drain					
13.	Disposal considerations:					
13.1.	Material:		Disposal in accordance with federal, state and local regulations			
13.2.	Packaging:					
14.	Transport information:					
			UN hazard Pack group	Class 3 II EN 1090 (as Ace	topo	
			5.5. <u>5</u> . 5. 5. 5.		tone)	
15.	Regulatory information:					
15.	Regulatory information:					
15. 16.	Regulatory information: Other information:					
				clusively by dental s		

Material Safety Data Sheet

according Directive 91/155 EEC

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